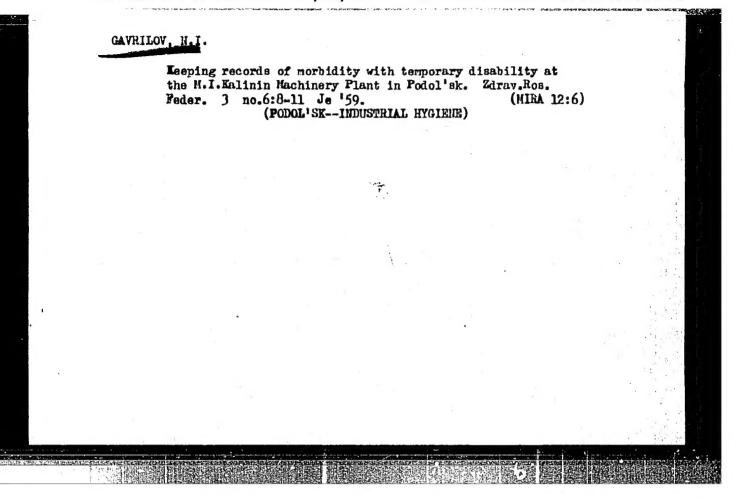
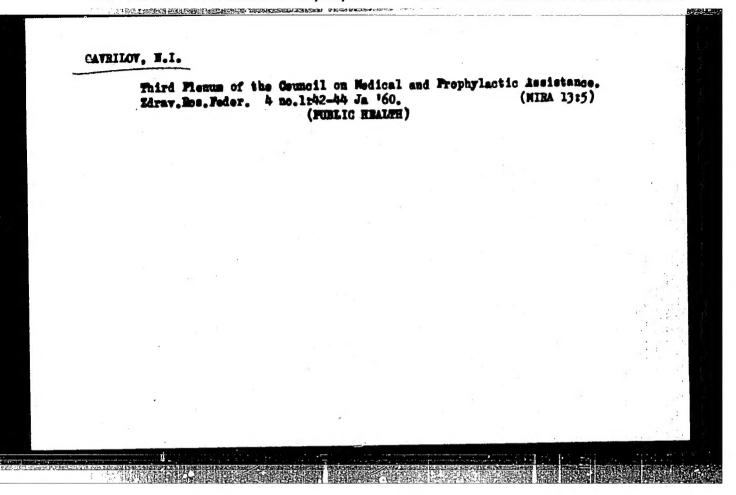
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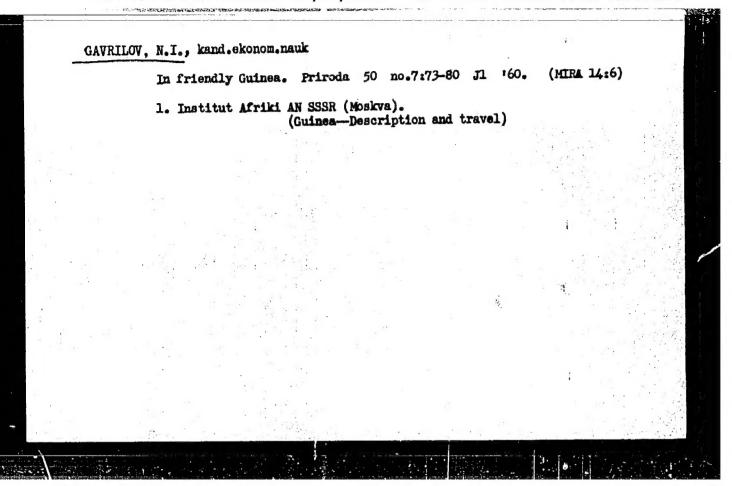
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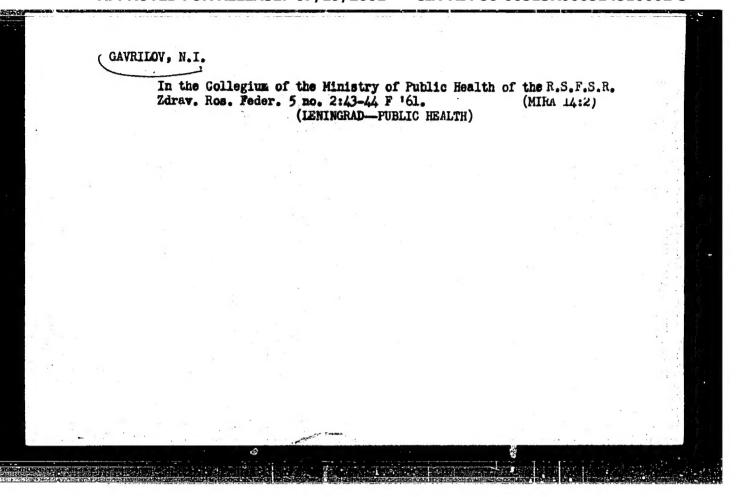
1. Mediko-sanitarunya chast' Pedel'skogo mekhanicheskogo savoda imeni M.I. Kalinina. (MEDIGAL RECORDS)

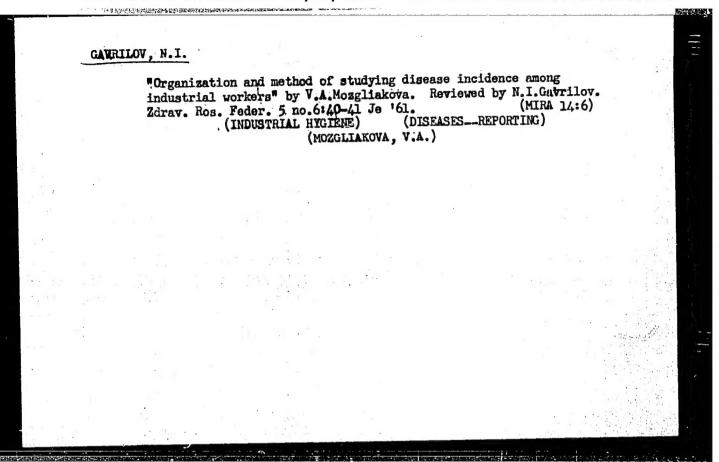
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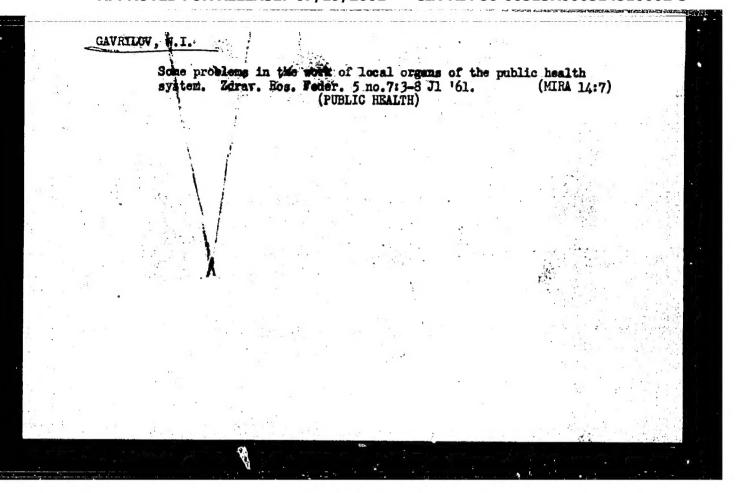
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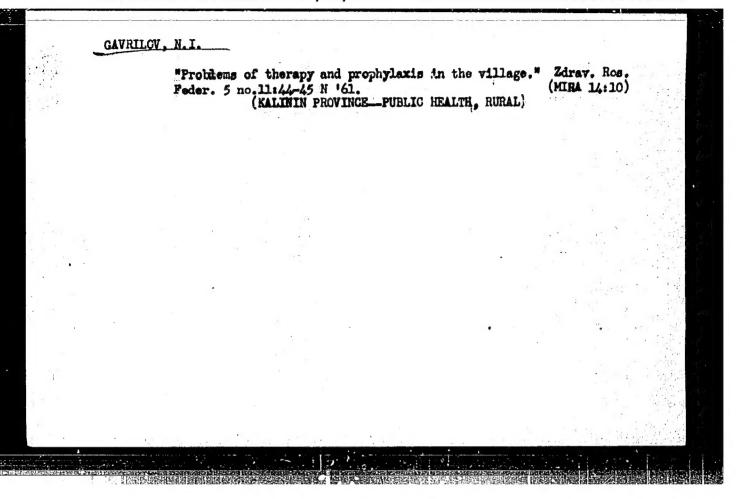
1. Nachal'nik otdela meditsinskogo obslushivaniya gorodskogo naseleniya i rabochikh promyshlennykh predpriyatiy Ministerstva zdravookhraneniya RSFSR. (PUBLIC HEALTH)







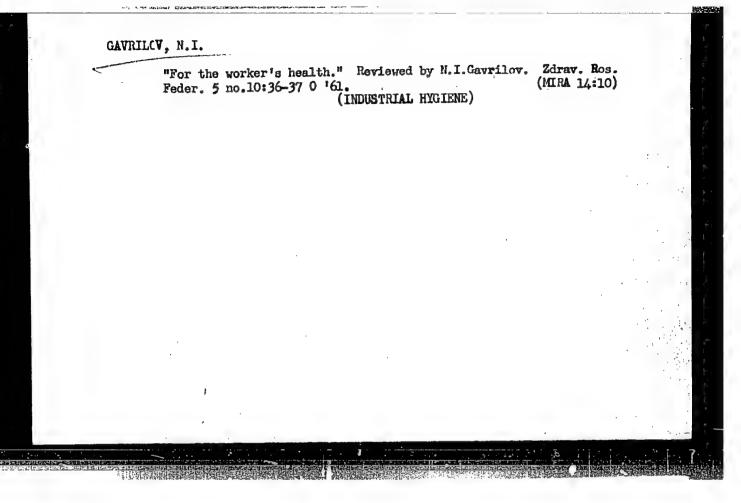




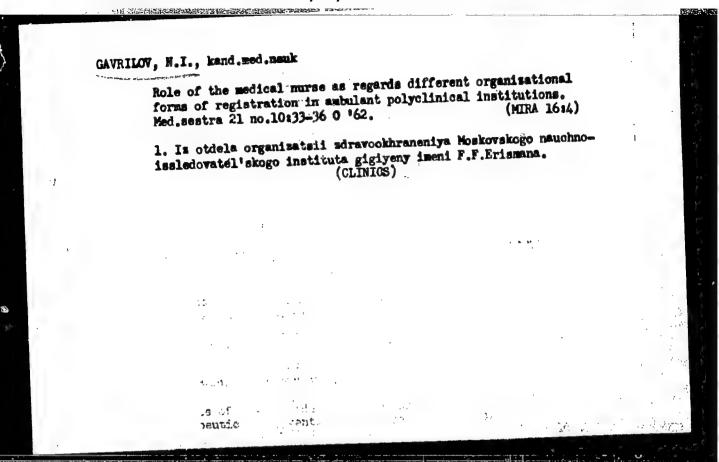
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GAVEILOV, N. I.	2257145		continuous (in general, complex) functions of a real variable t. Establishes an effective sufficient criterion for the Liepounoff stability of the soln (xjs0) of this system; this criterion discloses the stability for both pos characteristic numbers and size characteristic numbers and size characteristic numbers.	ential Equations," W. I. Gavrilov, Odessa State U imeni I. I. Mechnikov "Dok Ak Nauk SSSR" Vol LXXXIV, No 3, pp 425-428 Considers the familiar system dx1/dt = P1k(t)xk	USSR/Mathematice - Stability of Lia- 21 May 52 pounds. "Liapounoff Stability of Systems of Linear Differ-
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GAVRILOV,	Persidskly, "Iz Kazan Fiz-Matemat Obshon 1938). Submitted by Aced I. G. Petrovskiy 27 Mar 52.	

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Transactions of the Third All-union Mathematical Congress (Co Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., Izdatel 'stvo AN SSSR, Moscow, 1 Points of Non-linear Loaded Integral Equations With Various	1108825 nt.)Moscow, 956, 237 pp.
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GHVKILOV, N.1

SUBJECT AUTHOR

USSR/WATHEWATICS/Differential equations CARD 1/1 PG - 732 GAVRILOV N.I.

TITLE

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of vanishing characteristic numbers. PERIODICAL Wat.Sbornik, n. Ser. 41, 1, 7-22 (1957)

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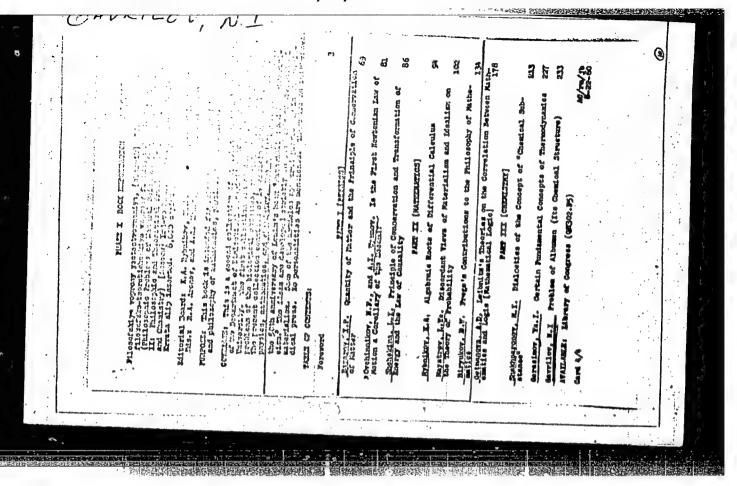
INSTITUTION: Odessa.

LEBETHEV, S.I., prof., doktor biolog.nauk, otv.red.; KOVBASYUK, S.M., dotsent, hand.istor.nauk; red.; PAZYUK, L.I., dotsent, hand.geologo-mineral. nauk, red.; KIRILLOV, Ye.A., prof., doktor fiziko-matemat.nauk, maslumbennyy deyatel nauki USSR, red.; TSESEVICH, V.P., prof., doktor fiziko-matemat.nauk, red.; LEONOV, I.G., dotsent, hand.istor. nauk, red.; VOROB'YEV, A.I., prof., doktor biolog.nauk, red.; GAVRILOV, N.I., prof., doktor fiziko-matemat.nauk, red.; MOROZOV, A.A., prof., doktor khim.nauk, red.; DANILENKO, K.Ye., dotsent, hand.filolog.nauk, red.; MIGAL', K.G., dotsent, hand.istor.nauk, red.; SMIRNOV, A.M., dotsent, hand.geograf.nauk, red.; BABICH, N.M., tekhn.red.

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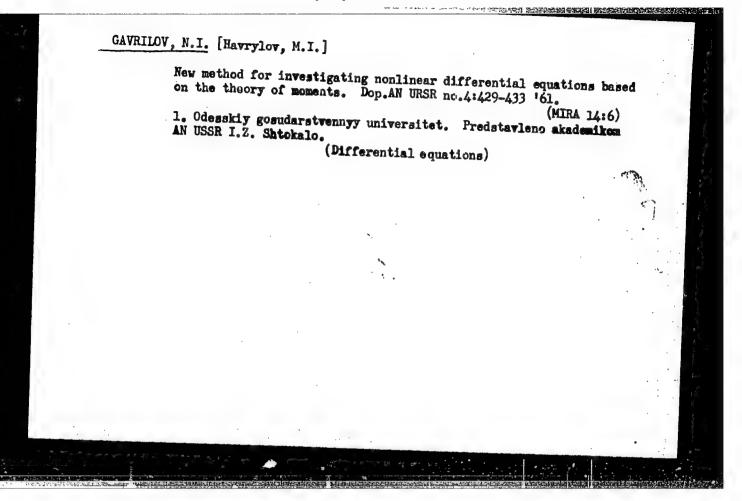
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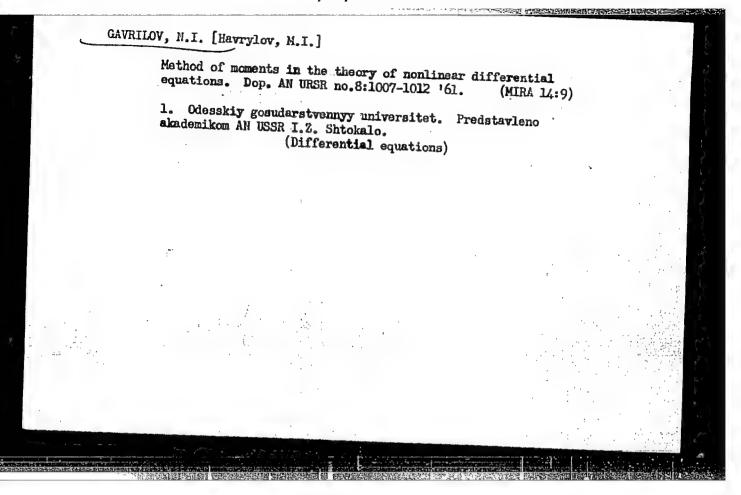


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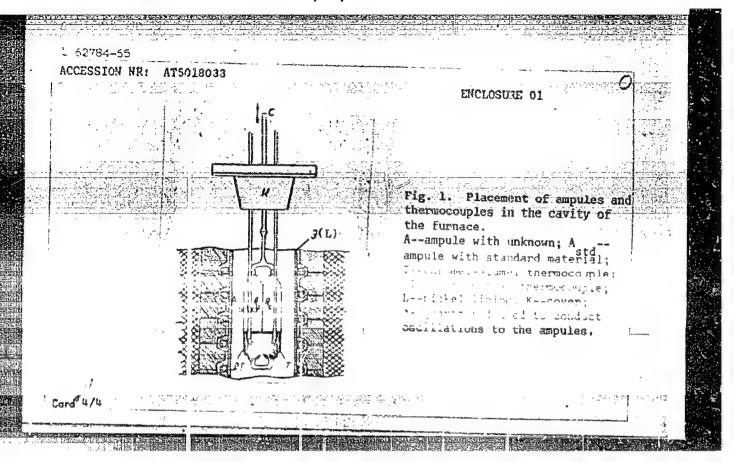
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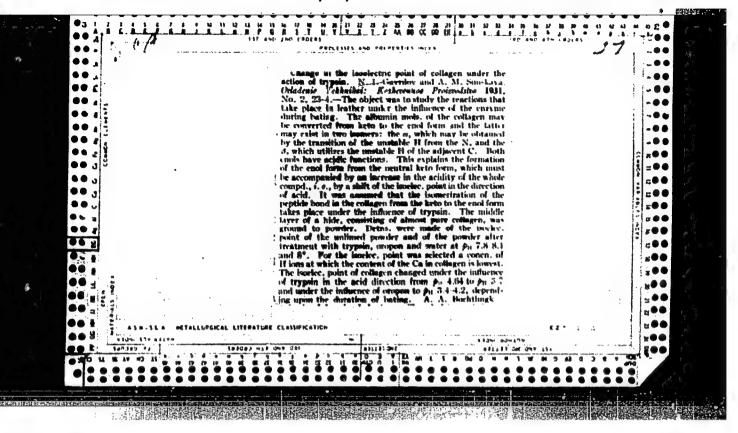
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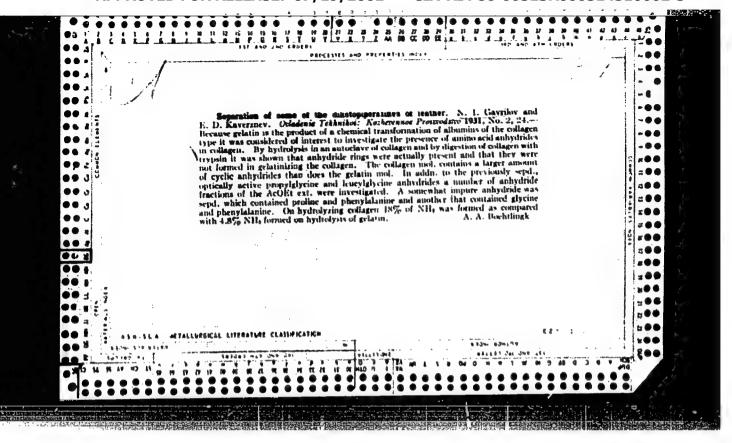
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AUTHOR: Baukin, I. S.; Gavrilov, N. I.;	Coloniers, B. T.
Production of equilibrium solid so	clustices by slow poverallization of the $^{BH_{+}}$
Seriya fiziko-matematicheskikh nauk, no. 2	vennyy universicet. Uchenyye zapiski, 2, 1963, 99-103
TOPIC TAGS: solid solution, phase equilib	rius, orystallization, crystal growth,
ABSTRACT: The article describes the equiption of equilibrium solid solutions by sloequipment is applicable even for those complete as a long apparatus if the phase diagram of the investig	ment which was developed for the productive crystallization from the nelt. The pounds with a miner decomposition during that rough conduction atems of the bearing or
the melt, in which the rate of diffusion i	s much greater than in the solid. Under
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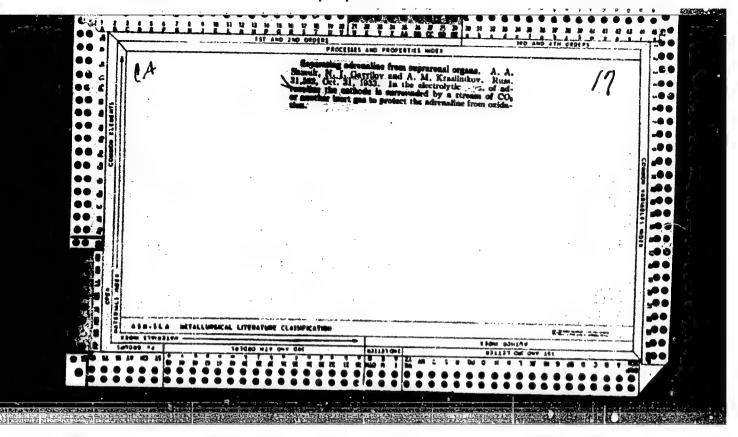
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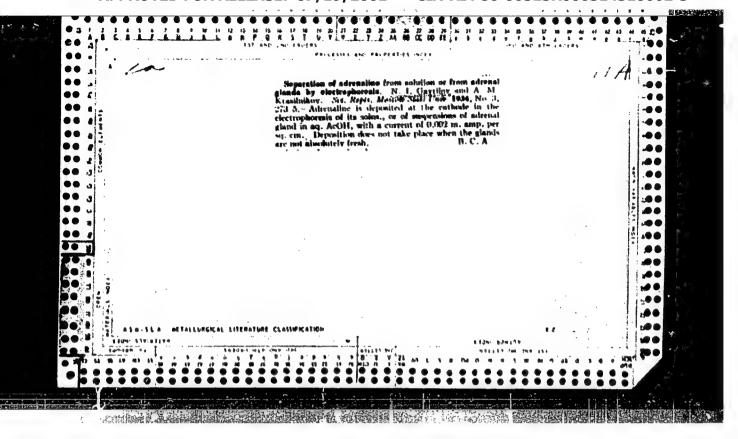
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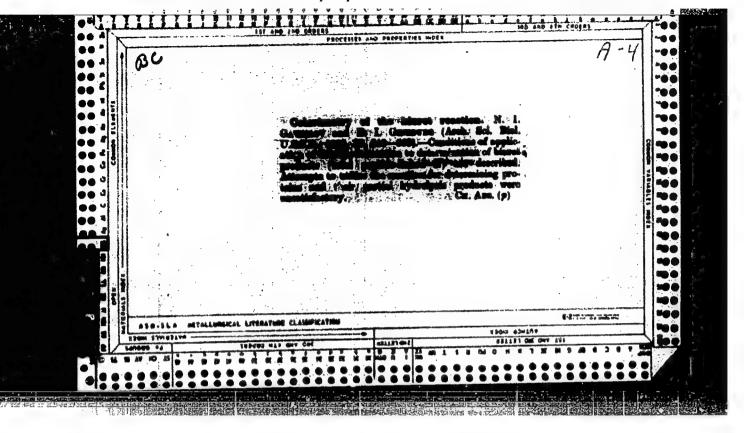


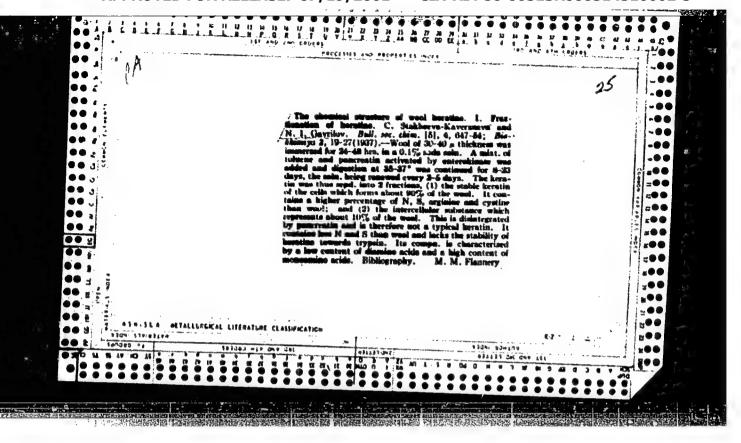


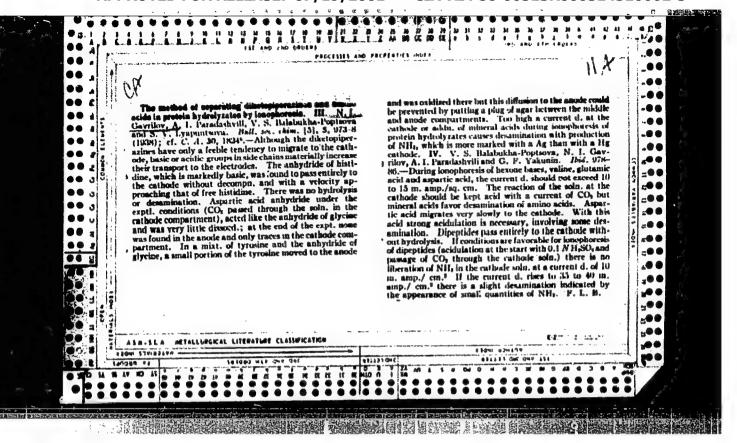




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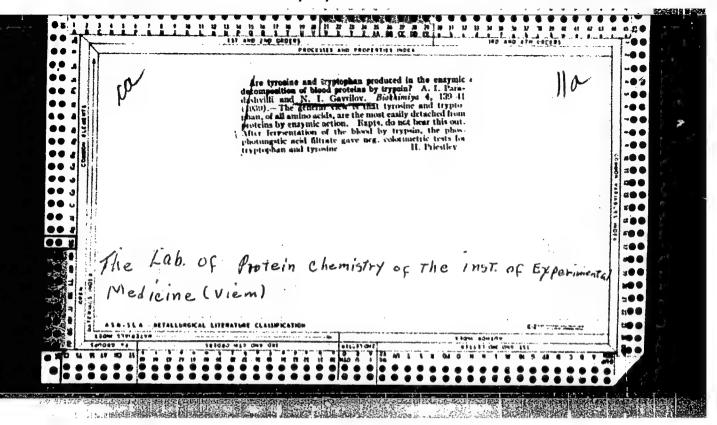


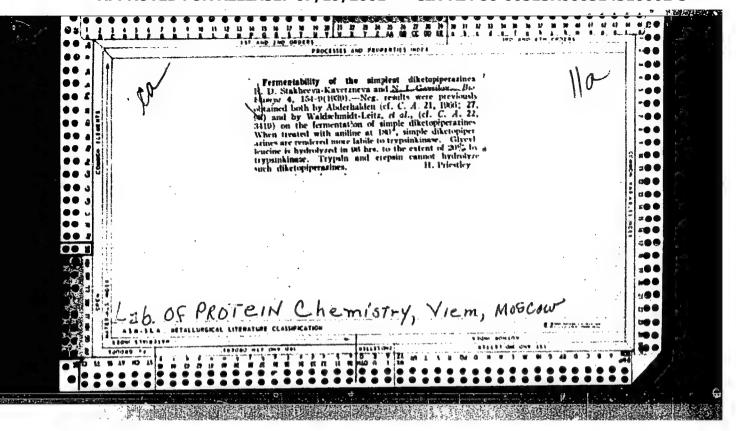


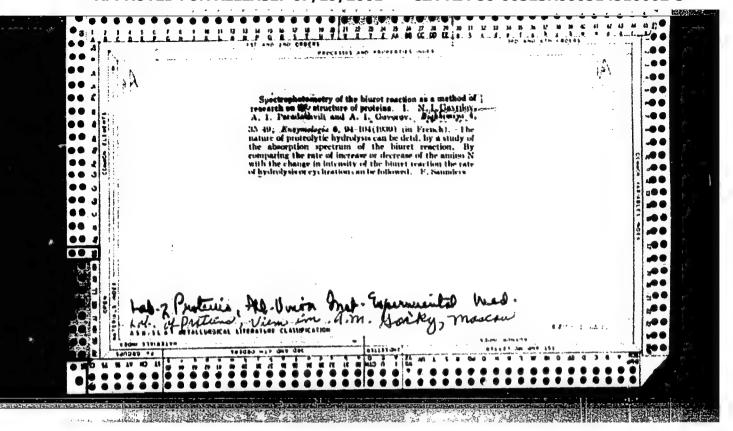


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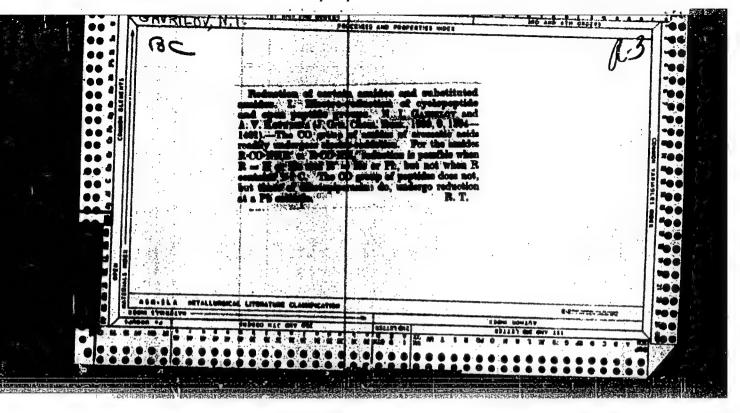
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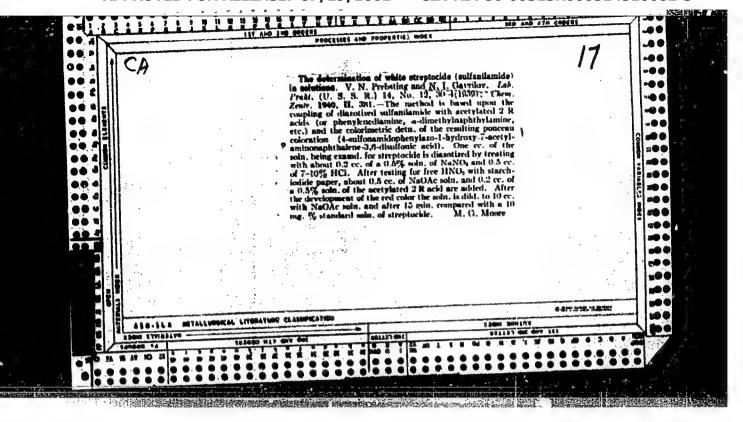


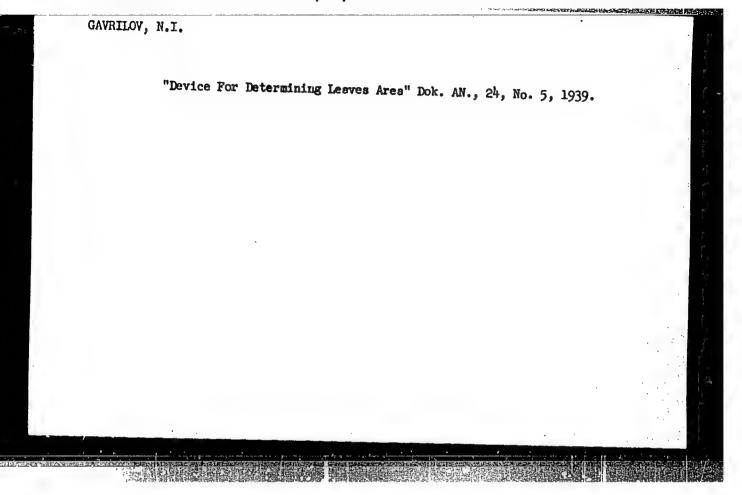




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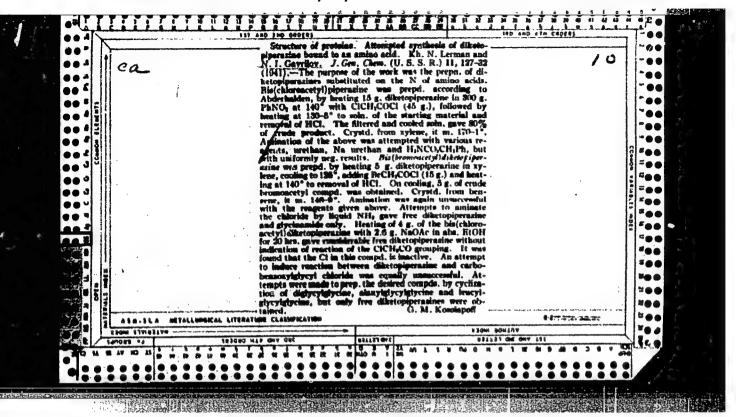


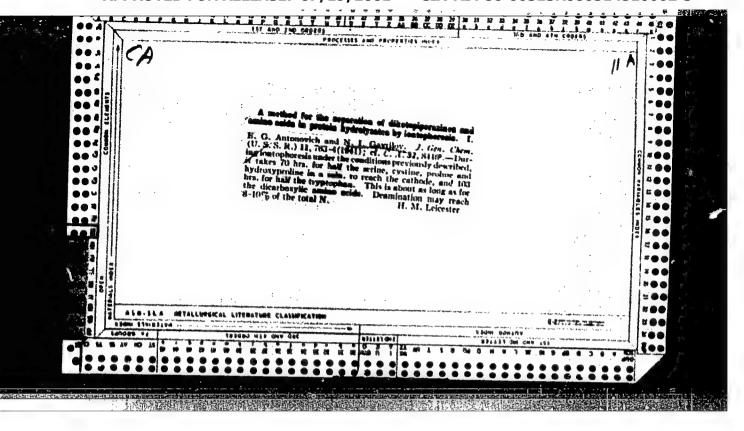


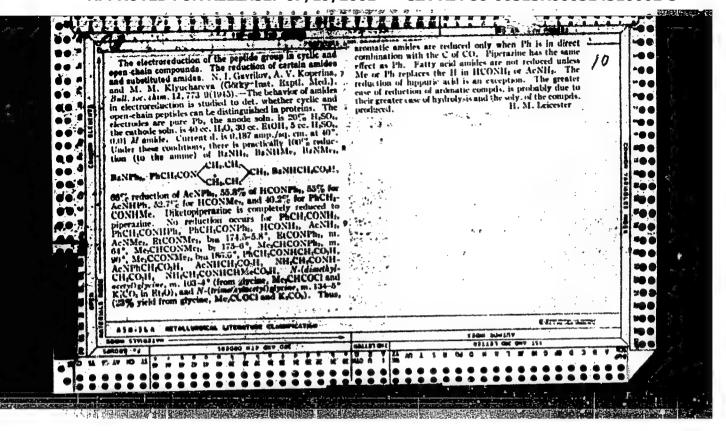
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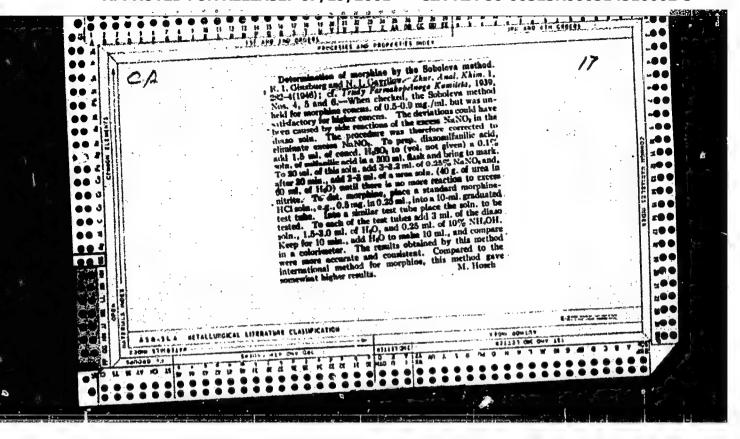
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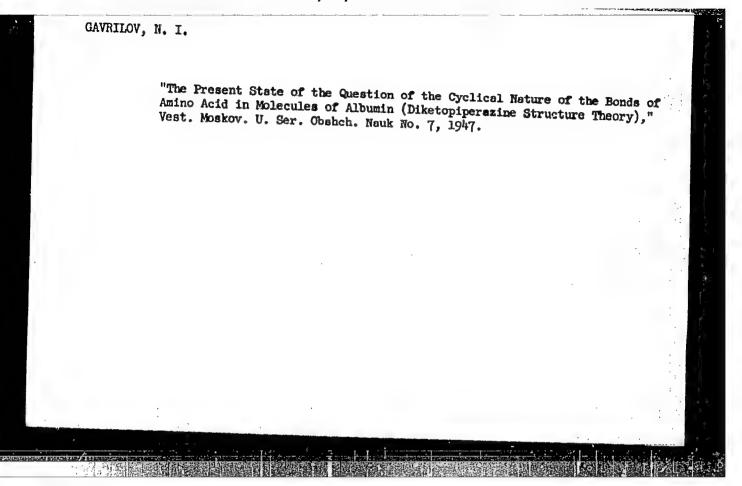




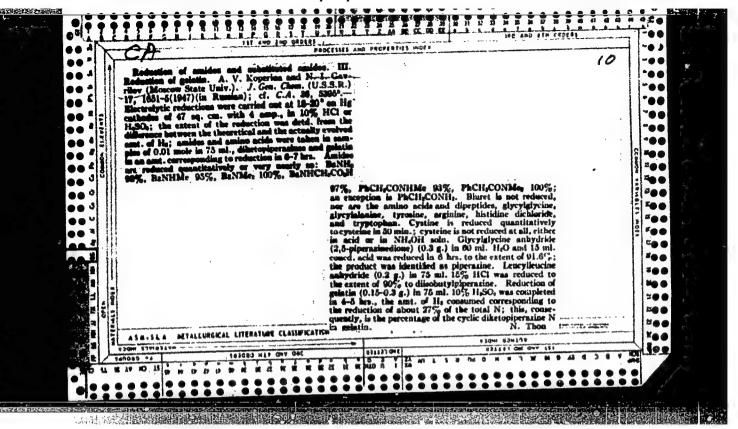
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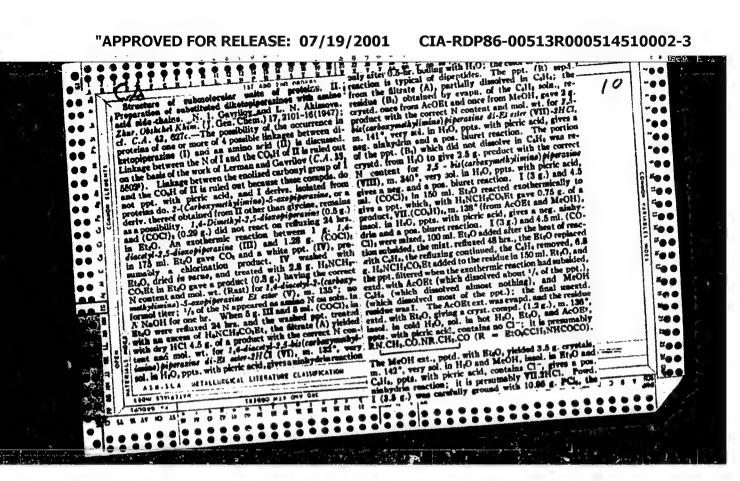
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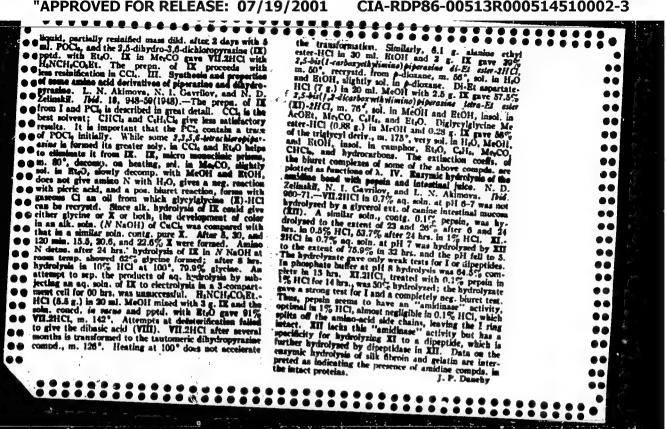


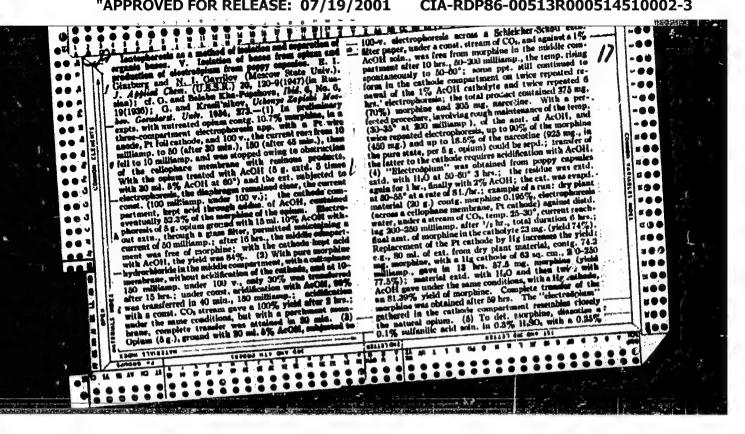


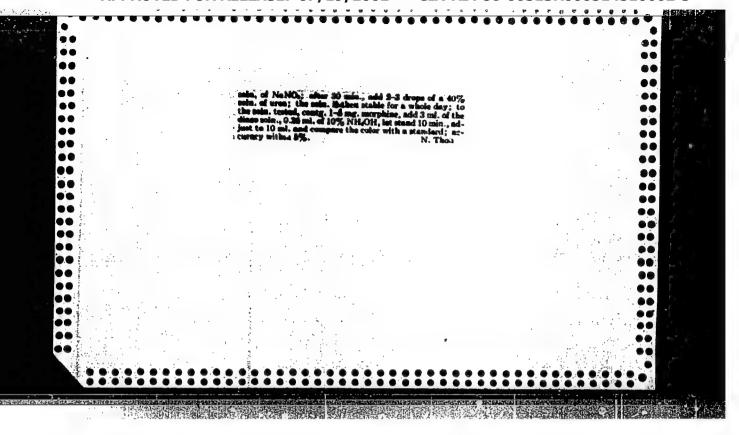


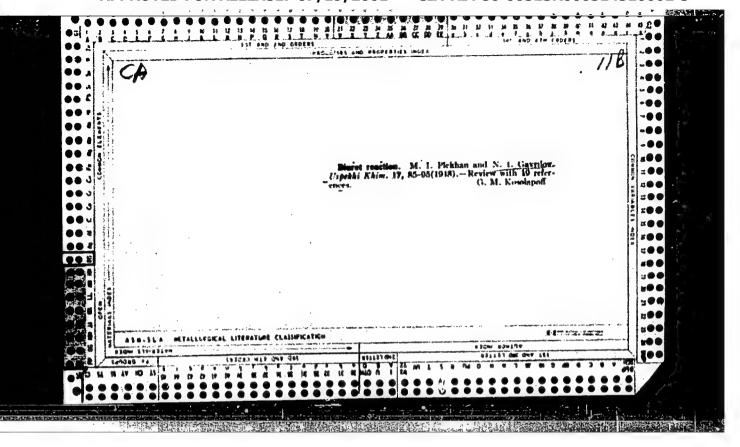


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USSR/Chemistry - Albumin Chemistry - Synthesis

May 48

"The Structure of the Micro-Molecule of Albumin, III," L. N. Akimova, N. I. Gavrilov, N. D. Zelinskiy, Lab Chem of Albumin imeni Acad N. D. Zelinskiy, Moscow State U, 11 3/h pp

"Zhur Obshch Khim" Vol XVIII (LXXX), No 5

Describes synthesis and properties of 2,5- dichlordihydropyrazine. This was consensed with the esters of glycol, alanine, aminosuccinic acid and diglycolglycine. The adsorption spectrum of the copper complex of the dihydropyazine-bisdiglycol-glycine ester had a maximum, corresponding to the free diglycol-glycine ester, but it was four times greater. Develops a working hypothesis on further possiblities of transforming the micro-molecule model of albumin into a macro-molecule model.

PA 8/49 T69

GAVRILOV, N. I.

USSR/themistry - Albumin, Molecular Structure Chemistry - Fermentation

May 48

"The Structure of the Micro-Molecule of Albumin, IV," N. D. Zelinskiy, N. I. Gavrilov and L. N. Akimova, Lab of Chem of Albumin imeni N. D. Zelinskiy, Moscow State U, $11\frac{1}{2}$ pp

"Zhur Obshch Khim" Vol XVIII (LEXX), No 5

Describes fermentation of amidine bond by pepsin and intestine juice. Submitted 13 Jun 194?

PA 8/19170



GAVRILOV, N. I.

USSR/Chemistry - Spectrophotometry, Proteins

Oct 48

" Spectrophotometry of Biuretic Complexes as a Method of Research on Proteins: VI, Absorption Spectra of Solutions of Cupric Complexes of Several Amides," N.A. Poddubnaya, N. I. Gavrilov, Lab of Albumin Chem, Moscow State U, 11 1/4 pp

"Zhur Coshch Khim" Vol XVIII, No 10

Investigated absorption spectra of blue-violet Gu complexes of examide derivatives, violet Cu complexes of malonamide derivatives, and red Cu complexes of biuret derivatives. Submitted 18 Sep 47.

PA 2/50T60

GAVRILOV, N. I.

N. A. Poddubmaia and N. I. Gavrilov, Spectro-photometry of "Biuretic" complexes as method of investigation of albumen. VIII. Absorption spectra of solutions of copper complexes of amino-acids. p. 1860

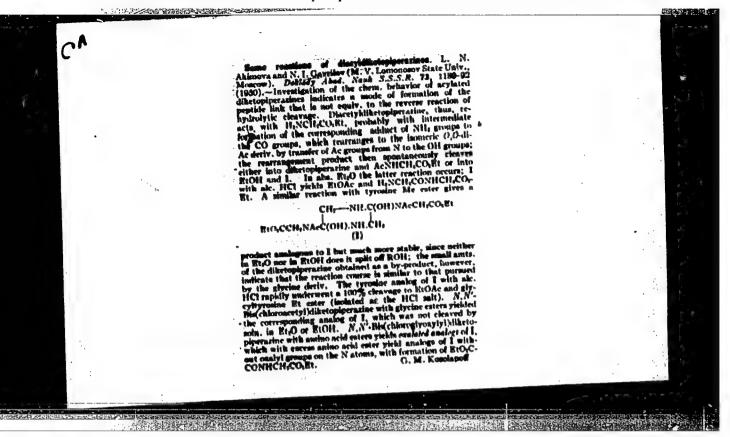
The amino-acids form copper complexes with a maximum absorption 610-630m.u. It is proved by electrolysis that copper enters into to the anion part of the copper complex.

Lab. of Chemistry of Albumen, Moscow State University, Molder of the Lenin Order September 18, 1947

SO: Journal of General Chemistry (USSR) 28, (80) No. 10 (1948):

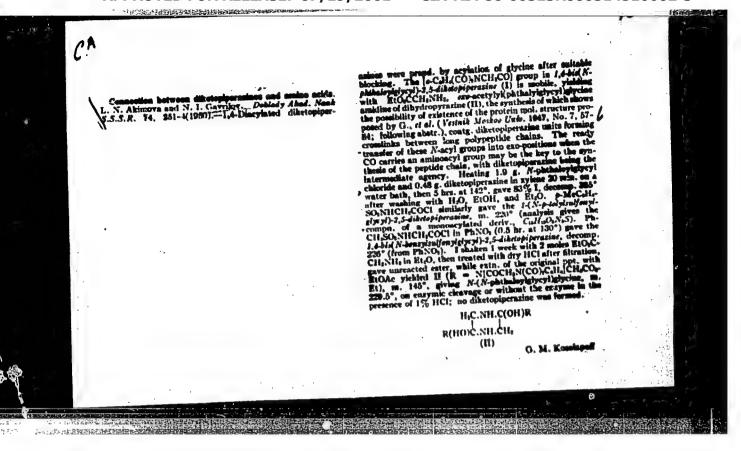
GAVRILOV, N. I., Prof.

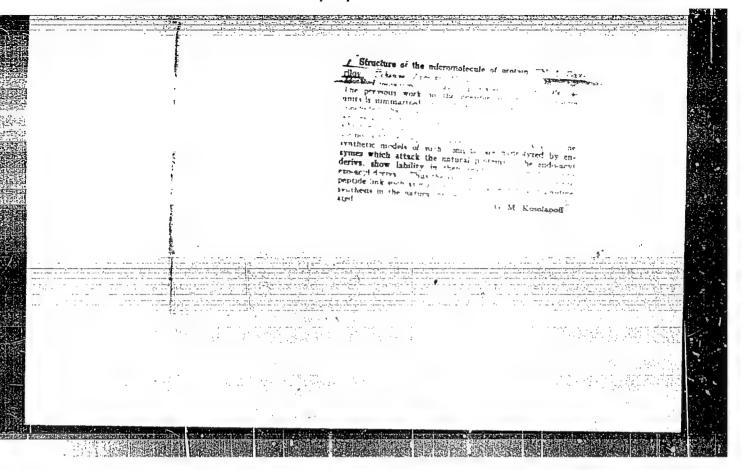
"Deionization of H₂ at Low Pressure," Dok. AN, 71, No. 2, 1950; Leb. Protein Chemistry im. N. D. Zelinskiy, Moscow State Univ Mbr. Mil. Air Engineering Acad. im. N. Ye. Zhukovskiy.



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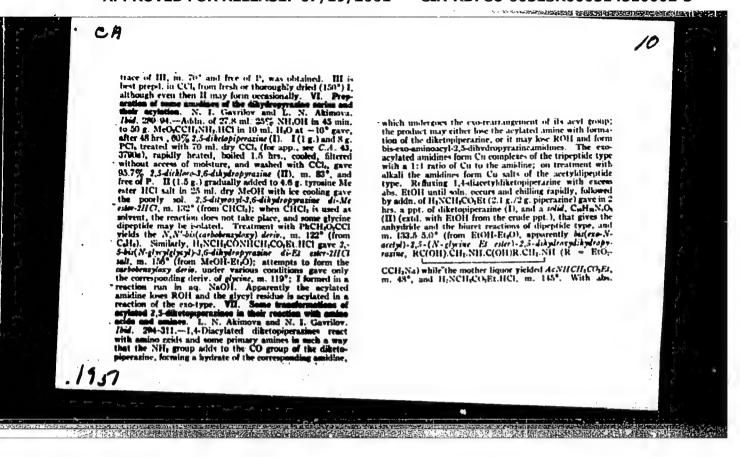
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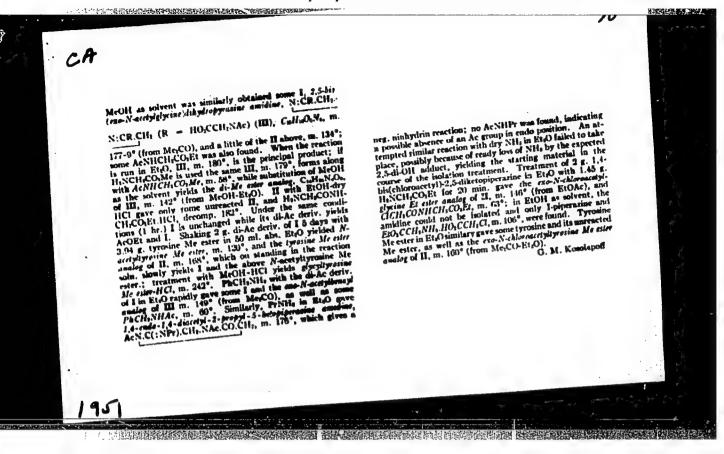
Structure of projects micromolecule V. Action of phosphorus pentachloride on diketosiperazine. N. I. Gavrilov, R. G. Petruva, and N. A. Puddubnaya (Moscow Siafe Univ.) Zhu. Obishel Khim. (J. Gen. Chem.) 21, 224 (1951); cf. C. I. 43, 3730; 2.6 Diketosiperazine at times lead to the bulation irreproducible results, which at times lead to the bulation of Promag products. The specific conditions assuring their formation have not been worked out. However, 0.5 g. powd. I and 0.4 g. PCla. CCl. in the previously described app., refused 5 hrs., cooled without access of moisture, and fittered, gave yellowish crystals, (Cdl.6.N.(2.P). (II). (ecomp. 20): giving the reactions of I and forming in air, a dispetible which yields a characteristic Cu complex. The product was impure, as some I crystals could be seen under a microscope; the material could not be recrystd, nor could its mol. withe detd. because of its insoly. Similarly, I. g. I. and 8 g. PCla in 40 ml. hot Cdla gave much HCl; filtering the bot soin, after 20 min. without access to moisture and letting it stand 1 hr. gave 0.75 g. needles, decomp. 160-70° and analyzing as above; the microscopic appearance was very similar to 2,5-tic hloro-i. d-dihydropyrazine (III); the product was soi, in cold Hg), had no amino N, and treatment

O PON O PON O (IIIA)

with McOH precouled with Dry Ice and letting warm up to 10-15° gave 3, indicating the case of hydrolysis of the P

link and thus showing the product was not IIIA, but passably an ester of the acid with an enol form of I (IIIB). Treatment with (COCI) failed to yield III and PCk, espected for the amide formulation, and no reaction took place even in 6 hrs. Treatment of the product in cold FI₂O with II-NCH₂CthF1 and estin, with EtaU gave a little I, II-NCH₂CthF1 and estin, with EtaU gave a little I, II-NCH₂CthF1 and estin, with EtaU gave a little I, II-NCH₂CthF1, HCl, and II₃PCh. Thus, P is not pointed to the Not I, nor is it an ester of the enol, since neither Et glycineanishine nor N-phosphorylated glycine Et ester were indated. The structure of the product remains unknown. Unsuccessful attempts were made to establish the best conditions for the preparation of III by the above reaction. In Call, the reaction is exastionally successful attempts were made to establish the best conditions for the preparation of III by the above reaction. In Call, the reaction is exastionally successful at the vields are lower than in CCl, in MePh both II and III form, II perdominating in pentance or cyclohexane the reaction occurs in pert. either, b. 60-70°, while in hexane is formed a chlorinated product, in, 120-2°, which decomp, in air and gives a birret reaction. In AcCl II formed exclusively. Addin. of quinoline did not facilitate the reaction. I was prepal, by diverse methods in a high degree of purity and was tried in the PCl₄ reaction with the following results: the product, purified by crystin from PNNI₁, in 274°, does not react with KMnO₃, with PCl₄ gives both II and III, and with PCl₄ does not react all, indicating a completely keto form. I, from the di-1,4-Ac deriv. and H₃NCH₂CO₃Na in H₄O₃, in, 316°, gave with PCl₄ only II; irradiation with ultraviolet light failed to alter the result. I crystd. from RtOII and dried at 110° also gave only II. After 4 hrs. PCl₆ with the di-Ac deriv., in CCl₄ save only impaire unreacted material, but in 24 hrs.





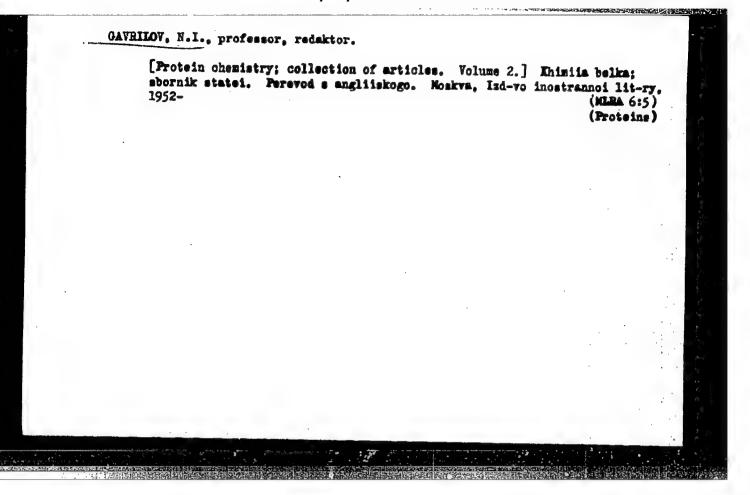
"Structure of rebmolecular units of proteins. W. Proparation of some amides of the dihydropyrazine series and their acylation." by N. I. Garilov, and L. N. Akimova. (p.289)

SO: Journal of General Chemistry (Zhurnal Obshehoi Khimii) 1951, Volumo 21, No. 2

GATRILOT, N. I.

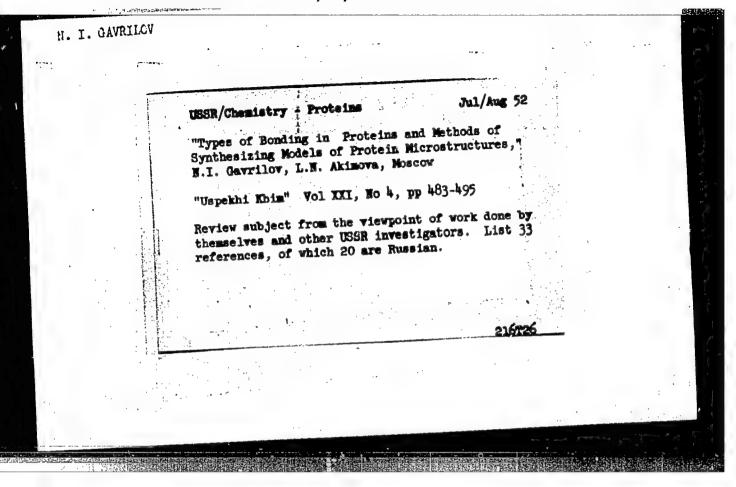
"Structure of submolocular units of proteins. VII. Some transformations of acylated 2, 5-diketo-piperazines during reaction with aminoacids and amines." by L. N. Akimova and <u>N. I. Gavrilov</u>. (p.294)

SO: Journal of General Chemistry (Zhurnal Obshchoi Khimii) 1951, Volume 21, No. 2



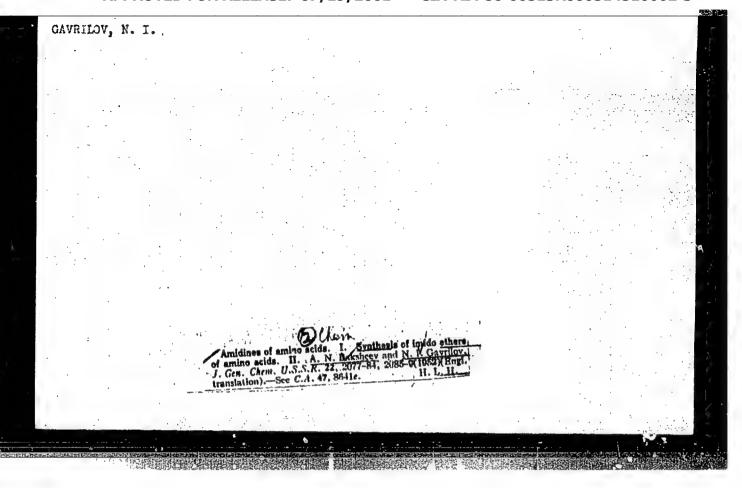
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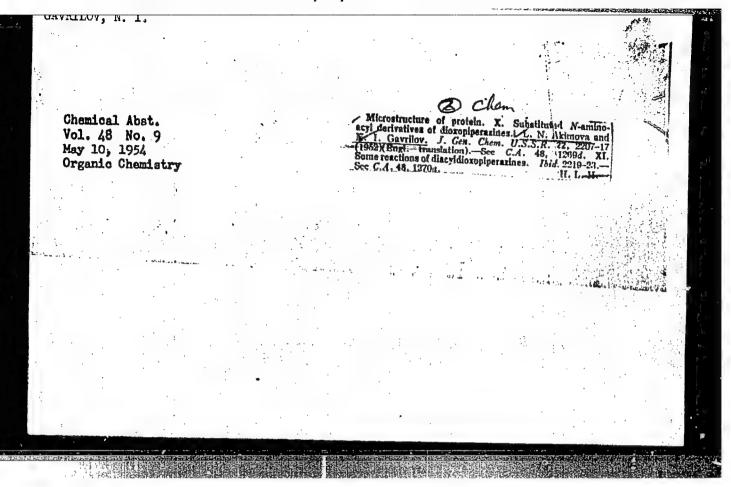
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				"Zhur Obsheh Khim" Vol 22,	Ethers of and M. I. State U	/RSSP/	
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		he reactione state. nino group - and pens series of prepared.	synthesizing eveloped, and g imino ethers comparatively the hydrogen chi	01	of Amino Acids: Amino Acids," A. Gavrilov, Chair	<u>g</u>	ı
		the reaction to pure state. The smino group on a smino group on a series of new a series of new as prepared. Replay prepared.	1		o °	mistry - Amino Acids	ì
		n to The on t ino s nev i Rei Rei	sthod of synthesizing imino exist was developed, and its applications imino ethers of the ries was demonstrated. The ries was demonstrated, the ried were comparatively stable satd with hydrogen chloride.	No 1	or N	.	
		of the reaction to be sepd out in ly pure state. The effect of the the waino group on the rate at whice of \$\mathcal{\alpha}\$ and \$\beta\$-amino acids were forms. A series of new imino ethers of was prepared. Representatives of and \$\beta\$-series were similarly prepared.	1	No 11, pp 2021-2029	Spathesis of In Baksheyev (dec) Org Chem, Moscow		ı
		ect ect ect swe swe swe swe swe swe swe swe swe swe	thers of a-smine licability for aromatic and maino ethers so in a surplus of This permitted 238735	S A	neye neye		
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GAVRILOV N. I.	238 r 36	tions (depending on the reagent ratio) readily provides both mono- and disubstituted amidines. The treatment of the dihydrochloride of aminoisobutyriminomethyl ester with pyridine led to the hydrochloride of aminoisobutyramide.	tendency of the imino ethers of a-amino acids to form only monosubstituted amidines was noted, whereas a-dimethylaminopropyliminomethyl ether,	A series of N-substituted amidines of amino acids was synthesized. Certain dipicrates were sepd out. In most cases, these picrates were easily and directly obtained by the combination of the salt of dimethylaminoacetiminomethyl ether with the picrate of the corresponding amine in an alc soln. The	"Zhur Obshch Khim" Vol 22, No 11, pp 2030-2035	"Amidines of Amino Acids, II," A. N. Baksheyev(dec), and N. I. Gavrilov, Moscow State U, Chair of Org	USSR/Chemistry - Amino Acids	the second secon





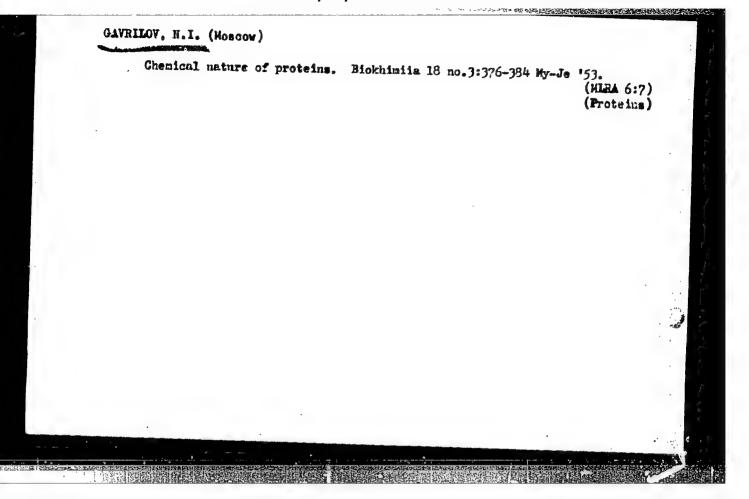
•	USSR (600)	
	Piperazine	
•	Microstructure of protein. Part 11. Some reactions of diacyldiketopiperasines. Zhur. ob. khim. 22 No. 12, 1952.	
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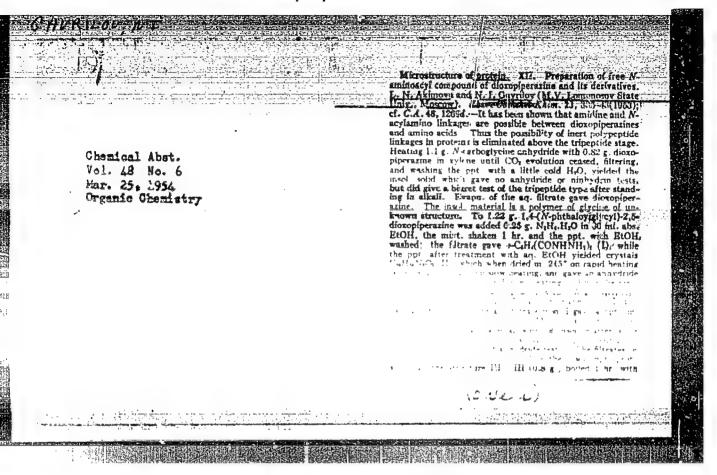
Garrilov, H. Akhimova, L. "Systems of association and ways of synthetizing models of protein microstructures. Tr. from the Russian" p. 70.

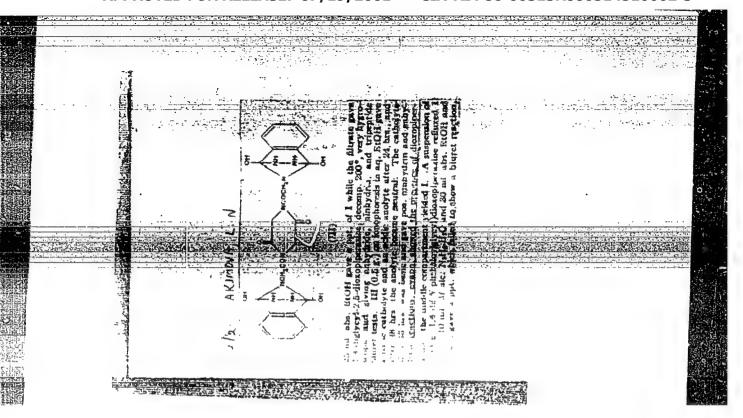
(Analele Romano-Sovietice, Seria Chimie, Series a III-a, v. 5, no. 1, 1953, Bucuresti)

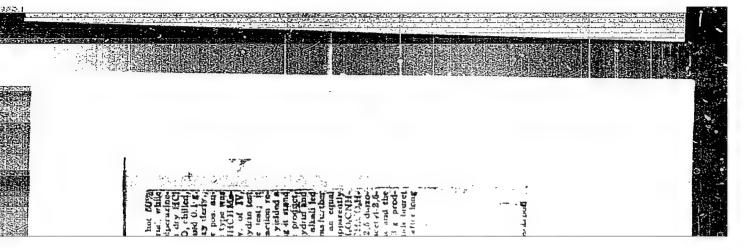
JAVKILOV, I.. (,

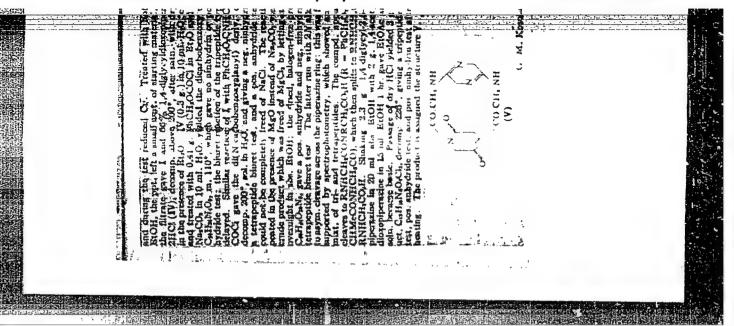
SO: Monthly List of East European Accessions, Vol. 2, No. 9, Library of Congress, September 1953, Uncl.





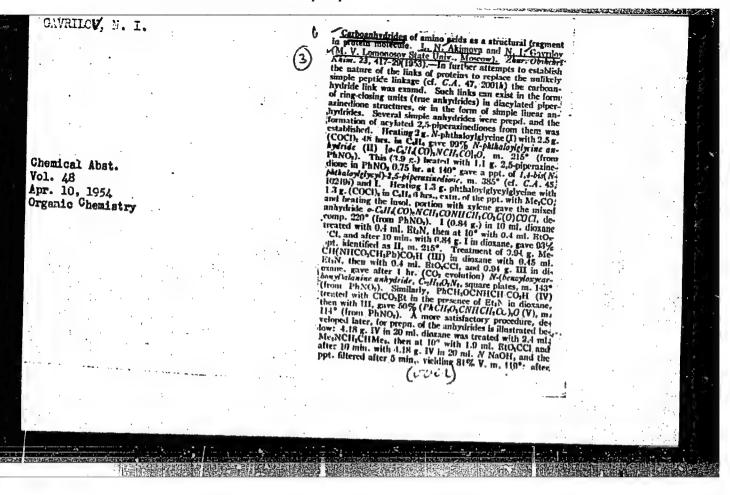


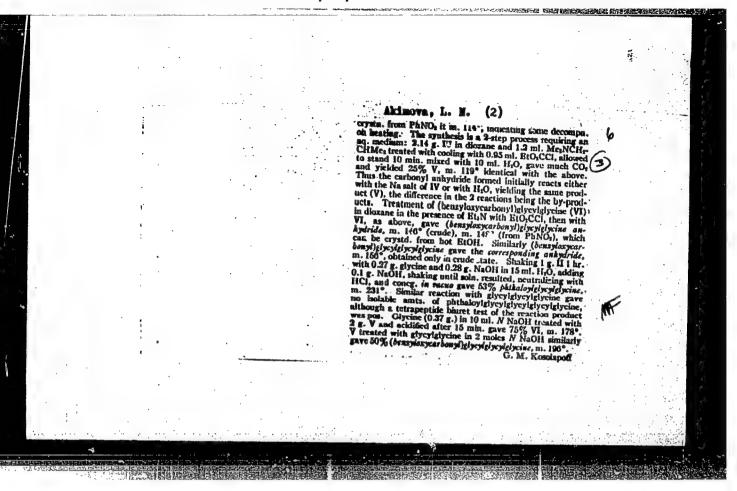




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ICAMISIAMI, P.G.; GAVRILOV, M.I.

Formol titration with application of a glass electrode. Biokhimia 19 no.3:345-348 My-Je 154. (MIRA 7:8)

l. Kafedra organicheskoy khimii Noskovskogo gosudarstvennogo universiteta.

(PORMALDINITOE,

titration of amino acids with glass electrode)
(AMINO ACIDS,

titration, formal technic with glass electrode)

GAYRIL OV, N. I

USSR/Chemistry - Albumina

Card 1/1 Pub. 151 - 32/38

Authors : Akimova, L. N., and Gavrilov, N. I.

Title : Carbonaceous amino acid anhydrides as a structural fragment in an albumina

molecule. Part 2.-

Periodical : Zhur. ob. khim. 24/2, 361-364, Feb 1954

Abstract: The reaction process during the derivation of mixed anhydrides from carbohenzoxytyrosine and chlorocarbonic ester is described. Ferments which hydrolyze
the carboanhydride bond were not discovered in trypsin and pepsin fermentation
the carboanhydride bond were not discovered in trypsin and pepsin fermentation
systems. It was found that the hydrolysis of a carbon glycol anhydride is very
systems. It was found that the hydrolysis of a carbon glycol anhydride is very
smooth in an alkaline medium but becomes retarded in the acid zone of the solu-

tion. The effect of hydrogen ion concentrations on the stability of such anhydrias is explained. Three references: 1-USSR and 2-German (1924-1953). Table.

Institution: State University, Moscow

Submitted : July 20, 1953

USSR/Chemistry - Biochemistry

Gard 1/1 Pub. 151 - 33/38

Authors

! Ioanislani, P. G.; Gavrilov, N. I.; and Plekhan, M. I.

Title The structure of gramicidin C. Part 1 .- Reduction of gramicidin C.

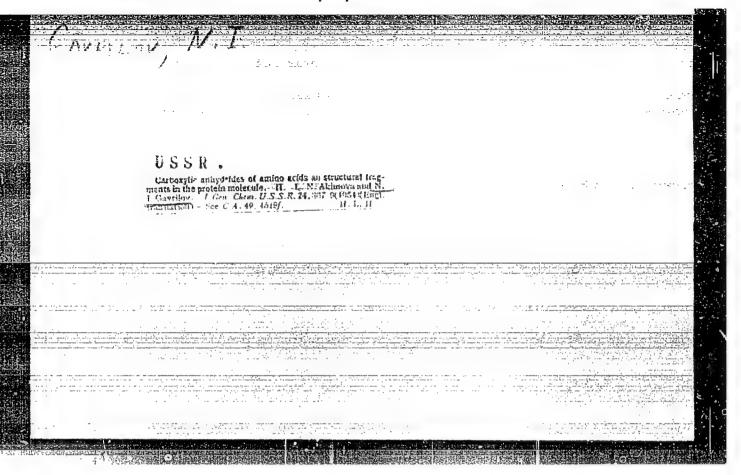
Periodical: Zhur. ob. khim. 24/2, 364-369, Feb 1954

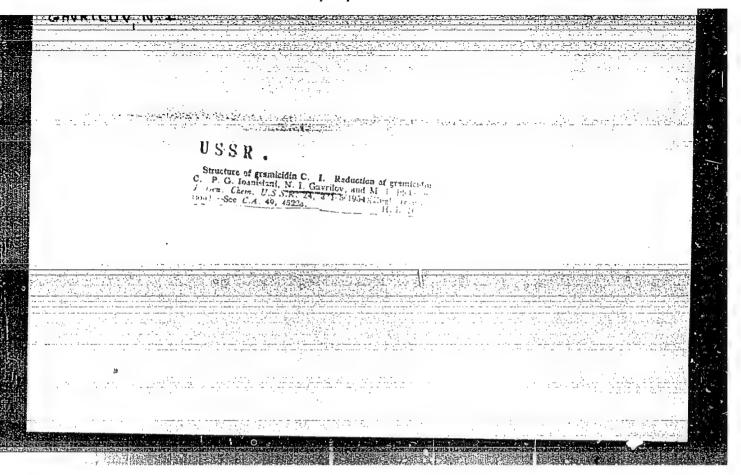
The existence in gramicidine C of two diketopiperazine and tripeptide frag-Abstract ments, the first one of which contains proline, was established experimentally. The paptides found in the products of incomplete gramicidin C hydrolysis are listed. The structural formula for the gramicidin C monomer is presented. Various characteristics of gramicidin C are described. Twelve references:

8-USSR; and 1-French; 3-USA (1939-1953). Tables.

Institution: The M. V. Lomonosov State University, Moscow

Submitted : August 7, 1953





GAVRILOV, W. I.

USSR/Chemistry - Biochemistry

Card 1/1 : Pub. 151 - 34/37

Authors : Gavrilov, N. I., and Akdmova, L. N.

Title : Amount of chain and cyclic alpha-amino acid bonds in an albumin molecule

Periodical: Zhur. ob. khim. 24/3, 563-571, Mar 1954

Abstract: The quantitative participation of tripeptides and diketopiperazines in the formation of an albumin monomer was investigated. The difficulties involved because of the presence of large amounts of prosthetic groups of unknown structure in the albumina are explained. Numerous albumina were characterized by their copper number, by the cyclic form of the bond and absorption spectra of the Cu-complexes inherent in their structure. The determined copper numbers of the albumina offer a quantitative representation of the participation of chain and cyclic bonds in the formation of the albumen. Ten references: 5-USSR; 3-German and 2-USA (1908-1954).

Tables; graph.

Institution : State University, Moscow

Submitted : July 20, 1953

GAVRILOV, II. I.

USSR/Chemistry - Antibiotics

Card .

: 1/1

Authors

Akinova, L. N., and Gavrilov, N. I.

Title

Structure of Gramicidin C. Part 2. - Study of the Formation of Cupric Gramicidin Complexes

Periodical

Zhur. Ob. Khim., 24, Ed. 6, 1064 - 1078, June 1954

Abstract

Experiments were conducted for the purpose of solving certain unexplained problems connected with the structure of gramicidin in the expectation that this would lead to the synthesis of this antibiotic. Incomplete data show that gramicidin C has a piperazine cycle, formed by phenylalanine and proline. Gramicidin is a dimer. The molecule of the original gramicidin has tripeptide which together with copper in an alkali medium gives a complex with a maximum absorption of 570 - 575 m/L. The displacement of the absorption maximum, toward the short wave band, was observed in the amide-tripeptide complex, containing asparagine. Five references. Tables, graphs.

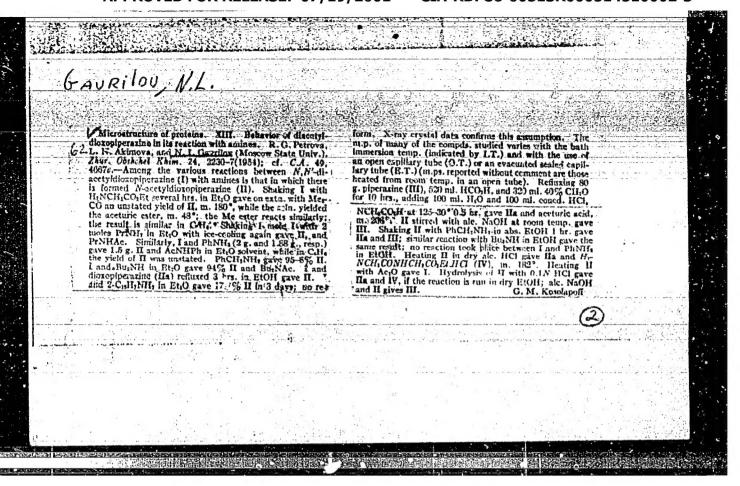
Institution

State University, Moscow

Submitted

July 20, 1953

USSR/ Chemistry Polymors Card : 1/1 Pub. 151 - 31/33 Authors : Akimova, L. N., and Gavrilov, N. I. Title : About polymors of amino-acids Periodical : Zhur. ob. khim. 24/8, 1457 - 1464, August 1954 The principle difference in the behavior and characteristics of polymers Abstract and albumina, is explained. The most interesting of all polymer characteristics were found to be their copper biuret complexes. The cupric numbers of albumina clearly show the tripeptide nature of individual fragments, whereas the cupric complexes of polymers can most accurately be compared with tetrapeptides and peptides. Twelve references: 7 USA; 1 Japanese; 1 Swiss; 1 German and 2 USSR (1906 -Institution : State University, Moscow Submitted : March 15, 1954



FD-1685

USSR/Chemistry - Biochemistry

Card 1/1 : Pub. 129-10/25

Author : Makarov, K. S. and Gavrilov, M. I.

Title : Electrophoresis, electroreduction, and spectrophotometry of plasteins

Periodical : Vest. Mosk. un. Ser. fisikomat. 1 yest. nauk, Vol 10, 81-88, Feb 1955

Abstract: Showed by electrophoretic diagrams that plastein is not a fraction of casein. Conducted electrophoretic analysis of plastein obtained from human serum albumin hydrolysate as prepared by enzyme hydrolysis. The plastein thus obtained differs from the plastein from casein in amino acid nitrogen content. Also prepared copper complexes of the plasteins and analysed them electrophoretically. Studied the electrophoresis of

casein electroreduction. Tables, diagrams. Fourteen references

(twelve USSR).

Institution : Chair of Organic Chemistry

Submitted: Jun 26, 1954

GAVRILOV, N.I.

USSR/Organic Chemistry - Naturally Occurring Substances and Their Synthetic Analogs, E-3

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61681

Author: Cavrilov, N. I., Icanisiani, P. G.

Institution: Mone

On the Amount of Cyclic & sine Bonds of Amino Acids in Some

Original dical:

Zh. obshch. khimii, 1955, 25, 30 9, 1802-1812

Abstract: On electric reduction (ER) of derivatives of diketopiperazines (DP) 2 reactions occur: in the case of aminoacyl-DP there are formed piperazines of peptides; in the case of amidine delivatives of DP ER is accompanied by formation of free piperazines and a splitting off of peptides terminal amino group of which can be determined by the gasometric method. ER was carried out at a movable mercury electrode according to the method of Gavrilov and Koperina (Zh. obshch. khimii, 1947, 17, 955, 1651). Changes in procedure involve

Card 1/3

2.07, 11 14 (15.3), IV 13.9 (13.8), V 14.4 (16.2), VI 13.9 (16.1). Respectively, N of DP in % of total N were found to be 27.6; 46.8; 31.03; 30.9; 23.1 and 40.0. Procedures

used for the analysis of the ein hydrolysates before and after ER were checked with an artificial mixture of amino acids 13R050544510002-3

APPROVED FOR RECEASE tion 619/2001 or mol CIA-RUPS6-7055 13R050544510002-3 Card 2/3